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(71) Applicant (for all designated States except US): **YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM [IL/IL]; Hi Tech Park, Edmond Safra Campus, Givat Ram, 91390 Jerusalem (IL).**

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SA'AR, Amir [IL/IL]; 46 Hermon Street, 90805 Mevaseret Zion (IL). SHAPPIR, Joseph [IL/IL]; 30 Hermon Street, 90805 Mevaseret Zion (IL).**

(74) Agent: **REINHOLD COHN AND PARTNERS; P.O. BOX 4060, 61040 Tel Aviv (IL).**

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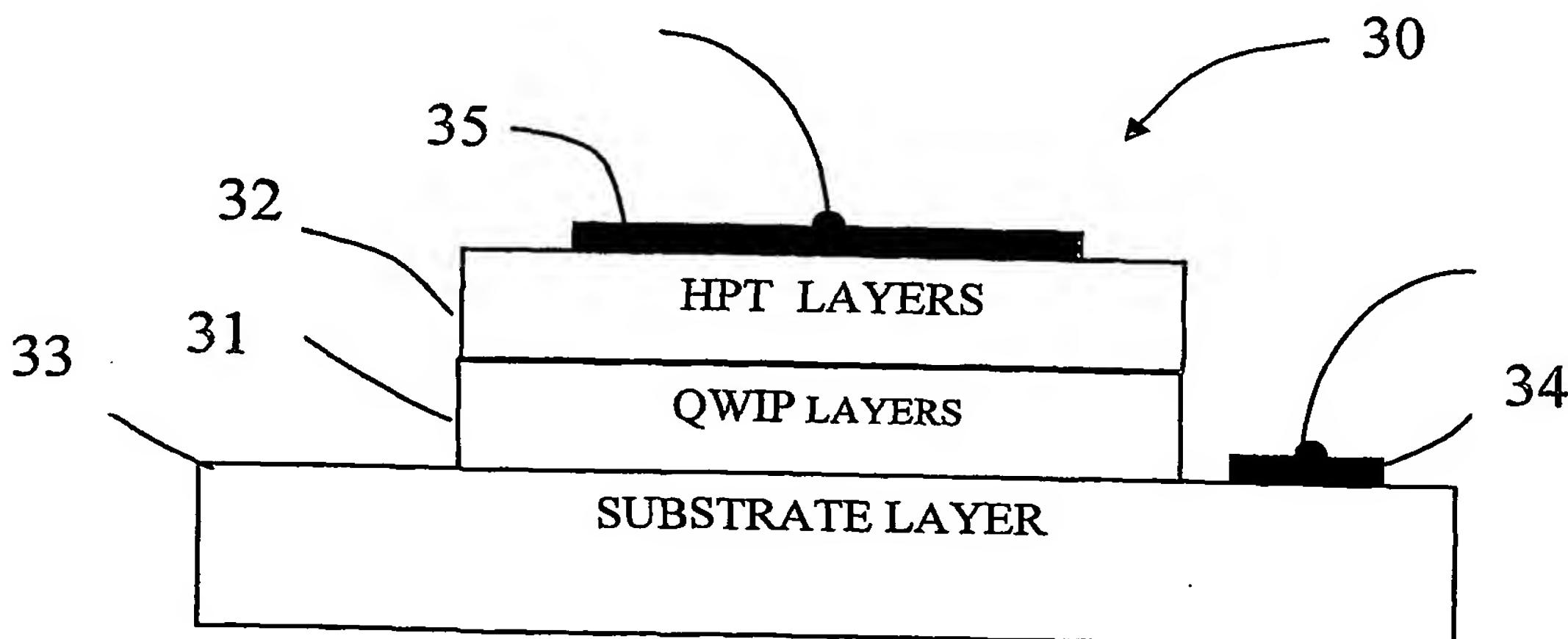
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(54) Title: VOLTAGE TUNABLE INTEGRATED INFRARED IMAGER



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(57) Abstract: An integrated thermal imager for detecting combined passive LWIR or MWIR radiation of a scene and active SWIR radiation of a laser source is described. The imager includes a two-dimensional focal plane array (2D-FPA) constituted by an assembly of voltage tunable photodetectors. Each voltage tunable photodetector integrates a quantum well infrared photodetector (QWIP) together with a heterojunction bipolar phototransistor (HBPT), thereby forming a pixel element in the 2D-FPA.